

A stent graft (10) with a stent frame (12) having a plurality of stents (16) connected together with monofilament line (22). A covering (14) of collagen having an extracellular matrix (ECM), such as small intestine submucosa (SIS), is disposed through the inside and over the outside of the stent frame. The covering (14) is affixed to the stent frame (12) such as by being sutured onto the stent frame at the ends of the stent frame and also at the connections of the stent bodies, such as at eyelets (24).